

**HEATING ELEMENT INDUCTION OF TIME-VARYING THERMAL GRADIENT  
IN ELONGATED BEAM TO CAUSE ONE OR MORE ELONGATED BEAM  
OSCILLATIONS**

**ABSTRACT**

5           One or more heating elements comprise a heating element. One or more elongated beams comprise an elongated beam. The heating element is coupled with the elongated beam and induces a time-varying thermal gradient in the elongated beam to cause one or more oscillations of one or more of the one or more elongated beams.